

TRANSLATION

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 16014	FOR FURTHER ACTION	See Form PCT/IPEA/416
International application No. PCT/JP2004/001504	International filing date (<i>day/month/year</i>) 12.02.2004	Priority date (<i>day/month/year</i>)
International Patent Classification (IPC) or national classification and IPC D03D15/02 (2006.01) , B32B5/02 (2006.01) , B32B27/20 (2006.01) , D03D15/00 (2006.01) , D06M11/83 (2006.01) ,		
Applicant NIPPON WISHBORN CORPORATION		

1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.
2. This REPORT consists of a total of <u>6</u> sheets, including this cover sheet.
3. This report is also accompanied by ANNEXES, comprising: a. <input type="checkbox"/> (sent to the applicant and to the International Bureau) a total of _____ sheets, as follows: <input type="checkbox"/> sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions). <input type="checkbox"/> sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box. b. <input type="checkbox"/> (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) _____, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).
4. This report contains indications relating to the following items: <input checked="" type="checkbox"/> Box No. I Basis of the report <input type="checkbox"/> Box No. II Priority <input type="checkbox"/> Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability <input type="checkbox"/> Box No. IV Lack of unity of invention <input checked="" type="checkbox"/> Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement <input checked="" type="checkbox"/> Box No. VI Certain documents cited <input type="checkbox"/> Box No. VII Certain defects in the international application <input type="checkbox"/> Box No. VIII Certain observations on the international application

Date of submission of the demand	Date of completion of this report
Name and mailing address of the IPEA/JP	Authorized officer
Facsimile No.	Telephone No.

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Box No. I Basis of the report

1. With regard to the **language**, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.
- ☐ This report is based on translations from the original language into the following language _____, which is the language of a translation furnished for the purposes of:
- ☐ international search (Rule 12.3 and 23.1(b))
- ☐ publication of the international application (Rule 12.4)
- ☐ international preliminary examination (Rule 55.2 and/or 55.3)
2. With regard to the **elements** of the international application, this report is based on *(replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report)*:
- ☒ the international application as originally filed/furnished
- ☐ the description:
- pages _____ as originally filed/furnished
- pages* _____ received by this Authority on _____
- pages* _____ received by this Authority on _____
- ☐ the claims:
- nos. _____ as originally filed/furnished
- nos.* _____ as amended (together with any statement) under Article 19
- nos.* _____ received by this Authority on _____
- nos.* _____ received by this Authority on _____
- ☐ the drawings:
- sheets _____ as originally filed/furnished
- sheets* _____ received by this Authority on _____
- sheets* _____ received by this Authority on _____
- ☐ a sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing.
3. ☐ The amendments have resulted in the cancellation of:
- ☐ the description, pages _____
- ☐ the claims, nos. _____
- ☐ the drawings, sheets/figs _____
- ☐ the sequence listing (*specify*): _____
- ☐ any table(s) related to sequence listing (*specify*): _____
4. ☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).
- ☐ the description, pages _____
- ☐ the claims, nos. _____
- ☐ the drawings, sheets/figs _____
- ☐ the sequence listing (*specify*): _____
- ☐ any table(s) related to sequence listing (*specify*): _____

* If item 4 applies, some or all of those sheets may be marked "superseded."

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Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement		
1. Statement			
Novelty (N)	Claims	1-4	YES
	Claims		NO
Inventive step (IS)	Claims		YES
	Claims	1-4	NO
Industrial applicability (IA)	Claims	1-4	YES
	Claims		NO
2. Citations and explanations (Rule 70.7)			
<p>Document 1: JP 9-313620 A, claims 2 and 4, paragraphs [0010] to [0016] and [0019] to [0023]</p> <p>Document 2: JP 2001-49541 A, claim 1 and paragraph [0017]</p> <p>Document 3: WO 01/98567 A1, claim 1 and page 5, lines 1 to 4</p> <p>Document 4: JP 2003-328237 A, claim 2, paragraphs [0027] and [0034]</p> <p>Claims 1, 2 and 4</p> <p>Documents 1 to 3</p> <p>The inventions set forth in claims 1, 2 and 4 do not involve an inventive step in the light of documents 1 to 3 cited in the international search report.</p> <p>Document 1 does not specifically mention whether the copper yarns and aluminum yarns that constitute the fabric have the laminated structure that is set forth in claim 1 of the present application. However, documents 2 and 3 disclose laminated yarns identical to the yarns of the inventions set forth in the present application, which were obtained by forming metal layers upon resin films by means of vapor deposition, bonding said films to one another by means of an adhesive so that the metal layers are positioned on the inside of the films in order</p>			

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Box No. V

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;
citations and explanations supporting such statement

to prevent the oxidation or the chloridation of the metal by the bleaching agent or the like, and then cutting the resulting structure into yarn-shaped pieces. Such being the case, it would have been easy for a person skilled in the art to conceive of employing the laminated structure that is disclosed in document 2 or document 3 as the structure for the yarns in the invention disclosed in document 1.

Claims 3 and 4

Documents 1 and 4

The inventions set forth in claims 3 and 4 do not involve an inventive step in the light of documents 1 and 4 cited in the international search report.

Document 1 does not specifically mention whether the button-shaped solid member, which was obtained by adhering copper and aluminum to a plastic member, has the laminated structure that is set forth in claim 3 of the present application. However, document 4 discloses laminated members that were obtained by forming metal layers upon resin films by means of vapor deposition, bonding said films to one another by means of an adhesive so as to form a sandwich structure with the metal layers positioned on the inside of the resin films in order to prevent the oxidation or the chloridation of the metal by the bleaching agent or the like, and then pulverizing the resulting sandwich structure. Such being the case, it would have been easy for a person skilled in the art to conceive of employing the laminated structure that is disclosed in document 4 as the structure of the solid members in the invention disclosed in document 1.

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Box No. VI Certain documents cited

1. Certain published documents (Rule 70.10)

Application No. Patent No.	Publication date (day/month/year)	Filing date (day/month/year)	Priority date (valid claim) (day/month/year)
JP 2004-115942 A	15.04.2004	25.09.2002	
[E, X]			

2. Non-written disclosures (Rule 70.9)

Kind of non-written disclosure	Date of non-written disclosure (day/month/year)	Date of written disclosure referring to non-written disclosure (day/month/year)
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Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Continuation of: Front page

D06M11/83 (2006.01) , D06M23/08 (2006.01) , D06Q1/10 (2006.01)